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**Grounds et al.**

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(54) **VEHICLE MOUNTED DEVICE AND A METHOD FOR TRANSMITTING VEHICLE POSITION DATA TO A NETWORK-BASED SERVER**

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(57) **ABSTRACT**

A vehicle mounted device is configured to transmit vehicle position data to a network-based server using a wireless communication system. The device includes first and second processing modules carried by a vehicle. The first module receives positioning signals and processes the signals into vehicle position data representing date and time, and the position, velocity and direction of travel of the vehicle. The second module stores the signals and communicates the signals to a network-based server using a wireless communications system. The signals are storable on-board the device during periods that the device is out of range of the wireless communication system for later transmission to the network-based server.

**18 Claims, 5 Drawing Sheets**

